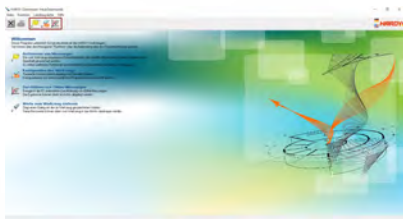
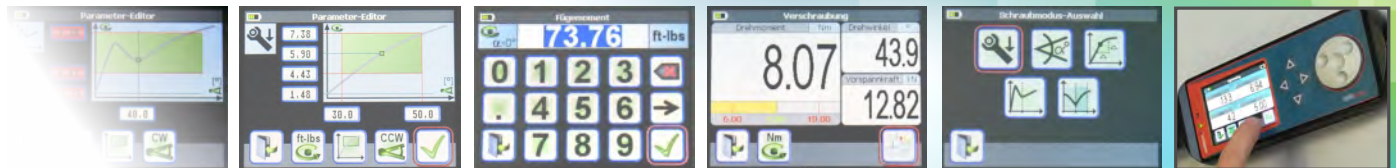




# HAW-28

The electronic torque / angle tool  
Our compact tightening lab



PC-Software HARDY ® \*  
Parameterization, data recording and archiving

\* optionally available

## Technical features

- Torque range (6 - 1000) Nm
- Torque mode
- Angle mode
- Yield moder
- Audit functions
- Internal memory 2GB
- Wireless data transfer \* WLAN, ZIGBEE
- Additional input for preload force - sensors

\* optionally available



## Accessories



### Radio transmission

WLAN  
 2.4/5.2 GHz,  
 802.11 a-j

ZIGBEE  
 2.4 GHz / 868 MHz EN  
 301489 -17



### 2D scanner

usable for all standard  
 1D / 2D barcodes



### Load washer

in sizes  
 (20 - 500) KN



### HARDY ® PC software

for parameterization, data  
 recording, graphic evaluation  
 and archiving of final values  
 and tightening curves

## Specifications

### Accuracy torque

± 1% between (20 - 100)% of tool capacity

### Microprocessor, memory

32 Bit RISC architecture  
 2 GB internal memory

### Power supply

Li-ion, 2500 mAh with overload protection  
 for approx. 8 hours continuous operation

### Accuracy angle

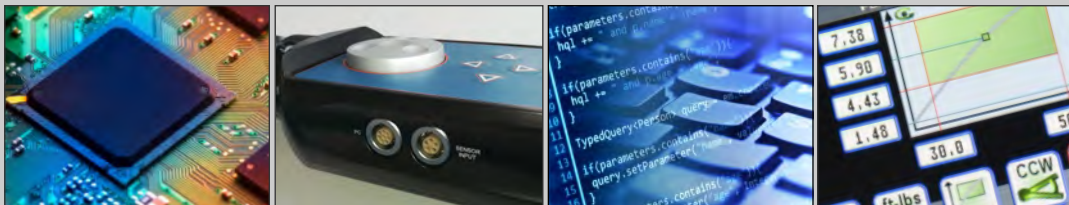
0.1° resolution of display

### TFT display

320 x 240 pixels, 16 bit colour  
 Analog touch panel

### Additional analog input

16-bit resolution  
 5 VDC supply for external sensors  
 (nominal value 2mV/V). Connection of  
 piezo sensors by using voltage divider



## Dimensions

HAW-28 ®	Torque [ N·m ]	Insert dim. [ mm ]	Length [ mm ]	Weight [ kg ]
60	6 - 60	9 x 12	415	1,1
100	10 - 100	9 x 12	415	1,1
200	20 - 200	14 x 18	545	1,4
300	30 - 300	14 x 18	825	2,0
400	40 - 400	14 x 18	825	2,0
600	60 - 600	14 x 18	1075	2,6
800	80 - 800	14 x 18	1385	2,6
1000	100 - 1000	on request	on request	on request

# HAW-28

MADE IN GERMANY   
DEUTSCHES  
WERKZEUG



## **HARDY Industriewerkzeuge und Anlagen GmbH**

Krablerstraße 127  
Gebäude 40  
45326 Essen

Telefon: +49(0)201-43666896  
Telefax: +49(0)201-36146186

E-Mail: [info@hardy-industrie.de](mailto:info@hardy-industrie.de)

**Customer-specific production**  
**Calibration service**  
**Repair service**

[WWW.HARDY-INDUSTRIE.DE](http://WWW.HARDY-INDUSTRIE.DE)

**HARDY** 